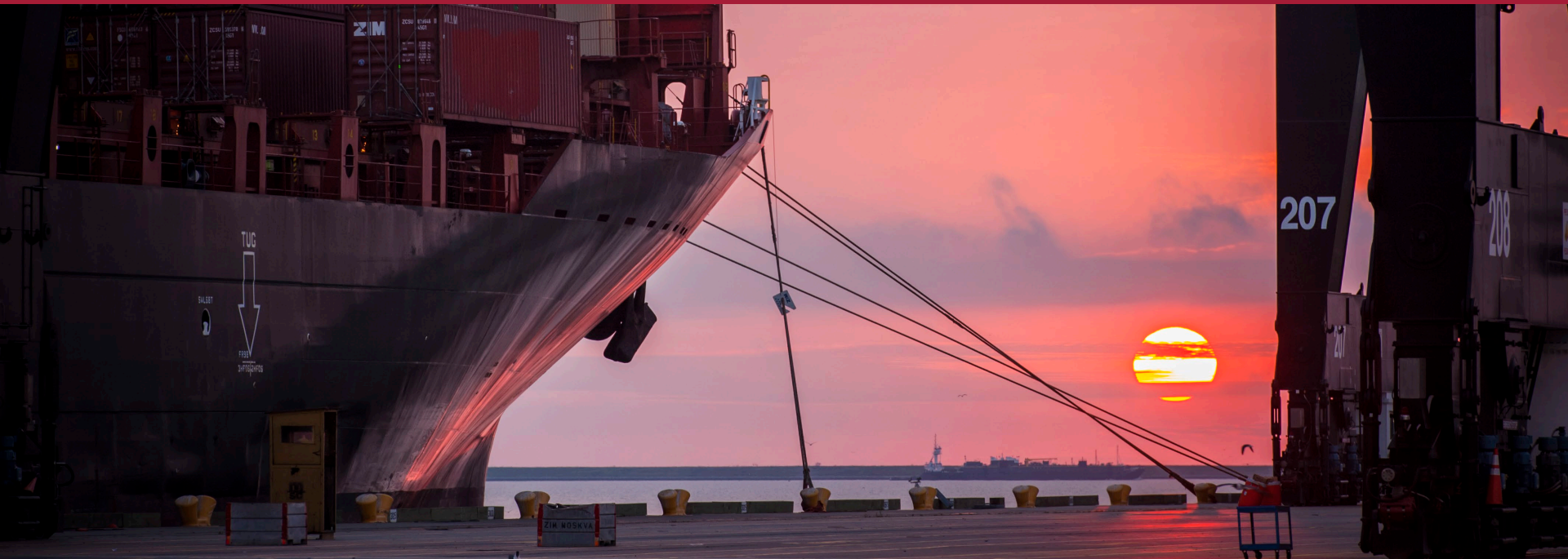




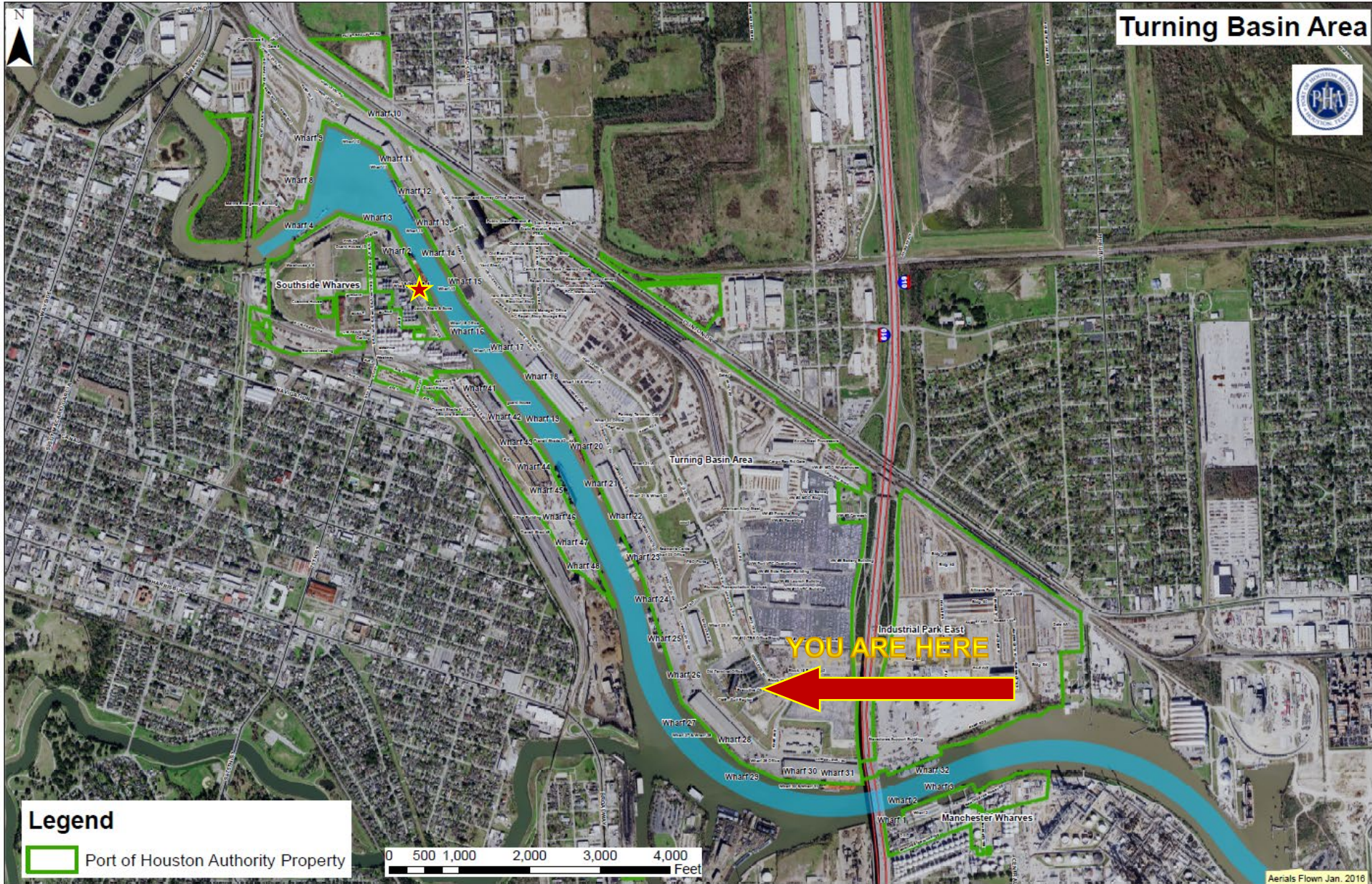
PORT HOUSTON
THE INTERNATIONAL PORT OF TEXASSM

RFQ 882 - RFQ-CORROSION FICAP ON MARINE ASSETS

Eddy Kharrazi, P.E. | Project Manager | Project & Construction Management (PCM)



RFQ – M2 Repair



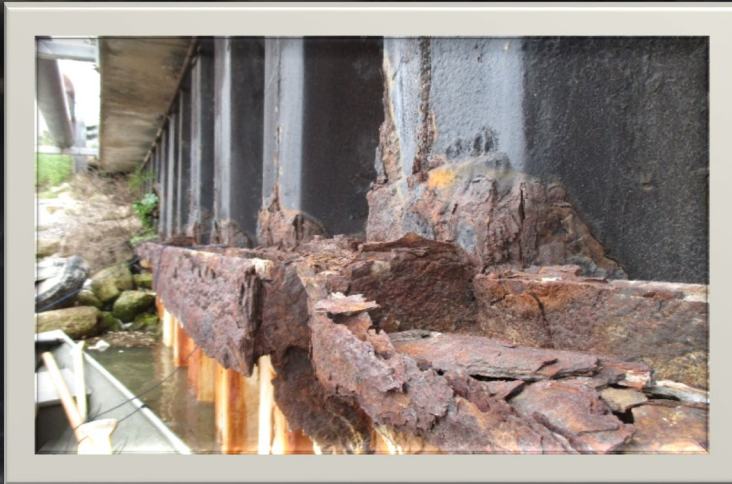


Typical corrosion issue



West Retaining Wall (1948)

Typical corrosion issue



East Retaining Wall (1963)

Typical corrosion issue

Corrosion Condition Assessment Program (CCAP)



- **Tool** for inspection, assessment, and planning of corrosion protection-related aspects of PHA maritime assets
- Focuses on **corrosion protection systems** (e.g., *impressed current cathodic protection*) and steel elements
- Provides more complete indication of **corrosion-related condition** of assets
- Provides evaluation of **existing corrosion protection** system performance
- Facilitates development and implementation of **effective corrosion protection strategies**

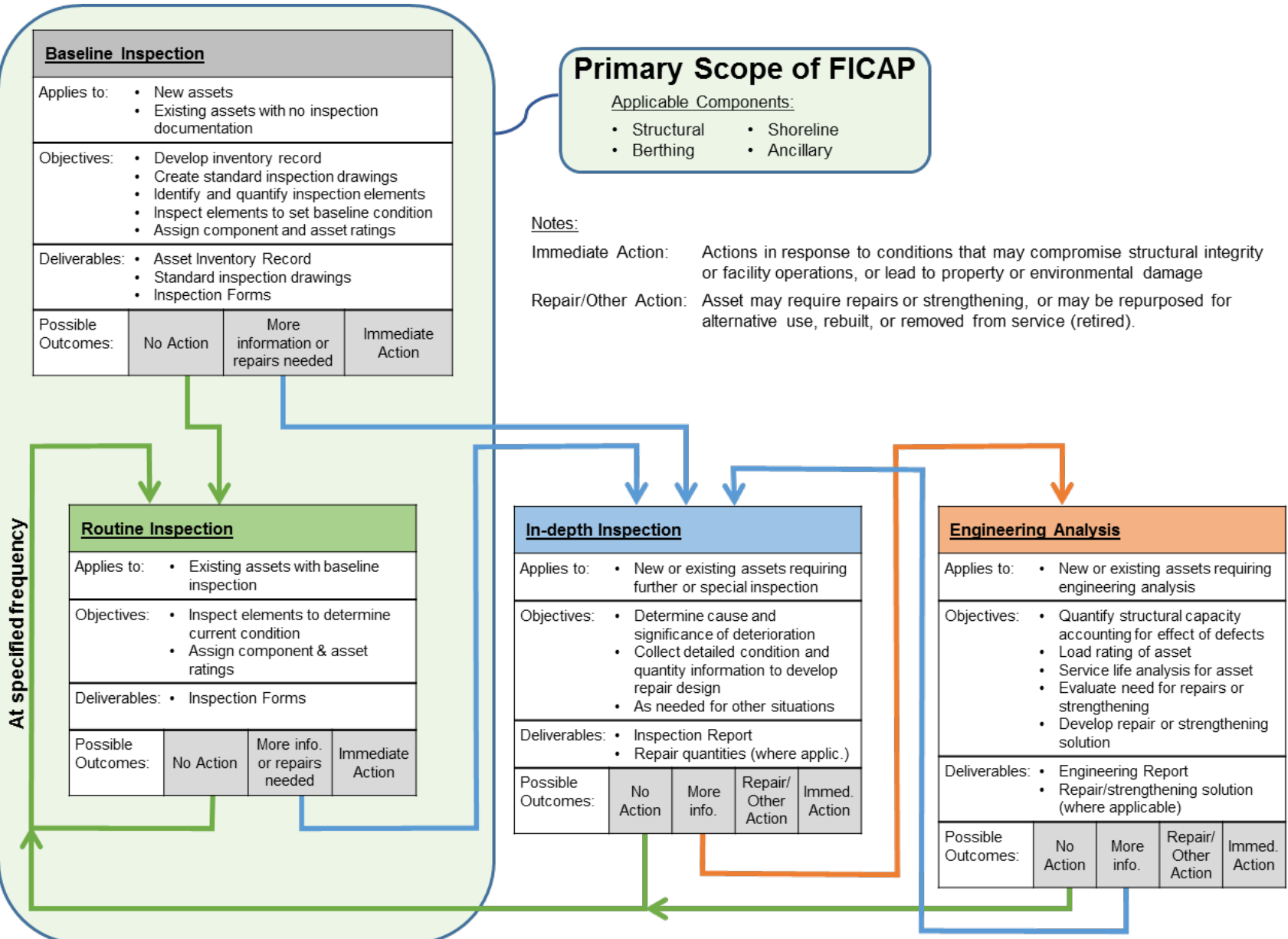
CCAP Objectives



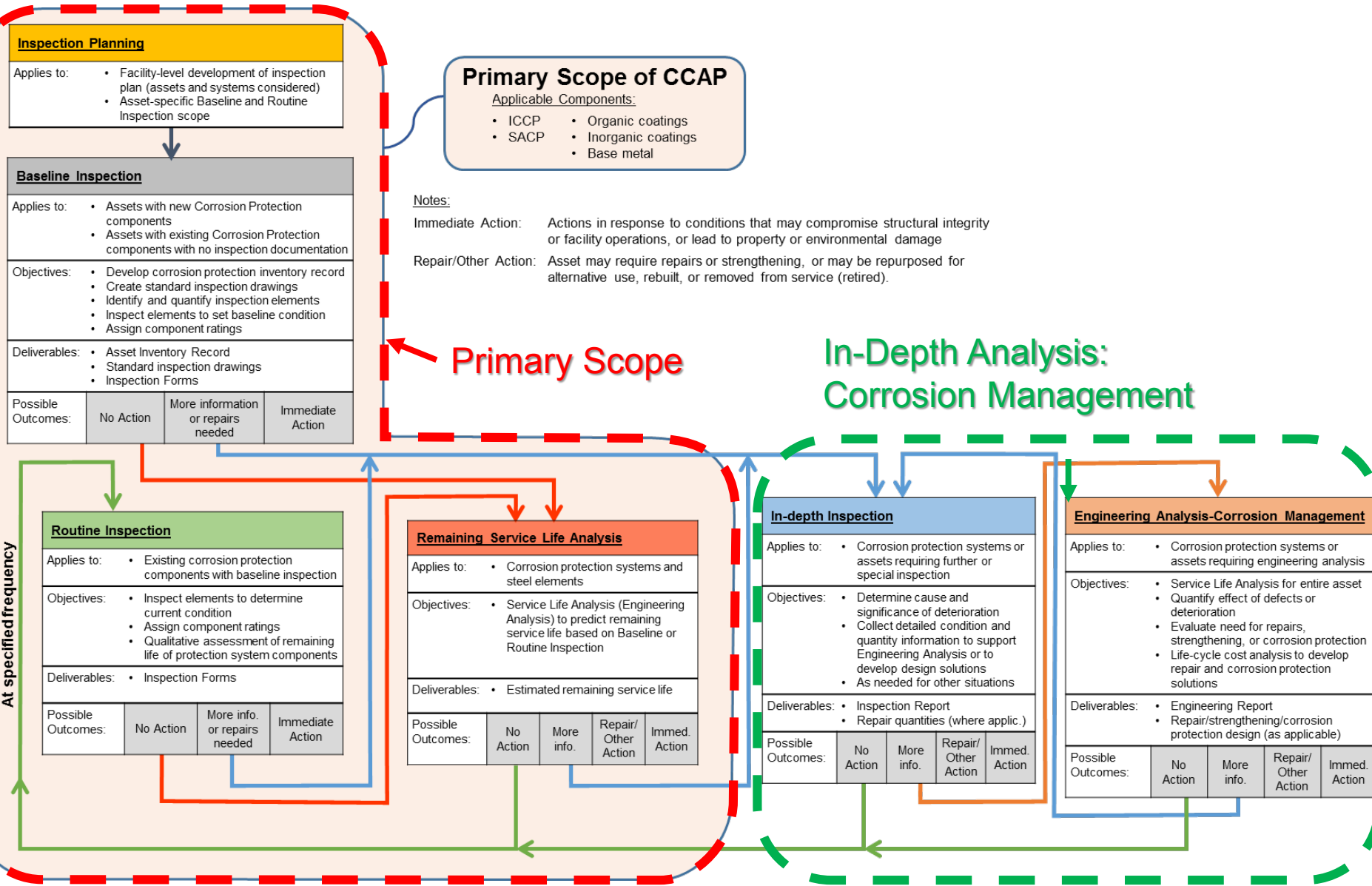
PORT HOUSTON
THE INTERNATIONAL PORT OF TEXAS™

- Implement an **Inspection and Condition Assessment Program** for corrosion-protection systems and steel elements
 - Define corrosion protection **components and elements** in use on Port Houston maritime assets
 - Characterize the **current condition** based on inspection
 - Estimate **expected remaining life**
 - **Report** current and future condition (standardized reports and database input)
- Provide an overall **framework for corrosion management** for existing and new maritime assets at Port Houston
 - Develop process for **in-depth performance analysis** and service life prediction for components and elements of a maritime asset
 - Applications include:
 - **Analysis of condition data and prediction** of expected performance for corrosion protection systems
 - Facilitate **quantitative analysis of cost-effectiveness** of the different corrosion protection systems
 - Methodology for the **Life Cycle Cost Analysis** of corrosion protection measures for repair designs and design of new assets

FICAP Primary Scope – for reference



CCAP Overview





PORT HOUSTON
THE INTERNATIONAL PORT OF TEXAS™

THANK YOU

Eddy Kharrazi, P.E.

Project Manager
Port Houston

Questions?

www.PortHouston.com

111 East Loop North
Houston, TX 77029